

Claims

1. Process for coating and inspecting drawn metal parts, comprising the steps of:
 - (a) providing a single ordered stream of drawn metal parts having a repeating sequential order, said repeating sequential order enabling identification of the drawn metal part by the location of the drawn metal part in said ordered stream;
 - (b) causing said ordered stream to move with an intermittent motion having a move time and a dwell time;
 - (c) providing a plurality of coating guns firing at normal firing rates during said dwell times;
 - (d) coating a pre-selected portion of a selected drawn metal part during a first dwell time with a first coating gun;
 - (e) providing automatic inspection means for determining if the coating is defective; and
 - (f) inspecting the coating of said selected drawn metal part with said automatic inspection means during a second dwell time.
2. The process according to claim 1, including the additional step of (g) enabling a second coating gun to coat drawn metal parts in the same sequential location in the ordered stream that was previously assigned to the first coating gun if the inspected coating is defective.
3. The process according to claim 2, wherein said additional enabling step (g) comprises firing the second coating gun at twice said normal firing rate.
4. The process according to claim 2, wherein said additional enabling step (g) comprises shifting the position of said second coating gun along said ordered stream and also firing the second coating gun at twice said normal firing rate.
5. Process for coating and inspecting drawn metal parts, comprising the steps of:
 - (a) providing a single ordered stream of drawn metal parts having a repeating sequential order, said repeating sequential order enabling identification of the drawn

metal part by the location of the drawn metal part in said ordered stream;

(b) causing said ordered stream to move with an intermittent motion having a move time and a dwell time;

(c) providing a plurality of coating guns operating at normal firing rates during said dwell times;

(d) coating a pre-selected portion of a selected drawn metal part during a first dwell time with a first coating gun;

(e) providing automatic inspection means for determining if the coating is defective;

(f) inspecting the coating of said selected drawn metal part with said automatic inspection means during a second dwell time;

(g) shutting down said first coating gun if the coating is defective, said selected coating gun being identified by the location of the removed drawn metal part in the ordered stream; and,

(h) enabling a second coating gun to coat drawn metal parts in the same sequential location in the ordered stream that was previously assigned to the first coating gun.

6. The process according to claim 5, wherein said additional enabling step (g) comprises firing the second coating gun at twice said normal firing rate.

7. The process according to claim 5, wherein said additional enabling step (g) comprises shifting the position of said second coating gun along said ordered stream and also firing the second coating gun at twice said normal firing rate.